

Figure 2



216

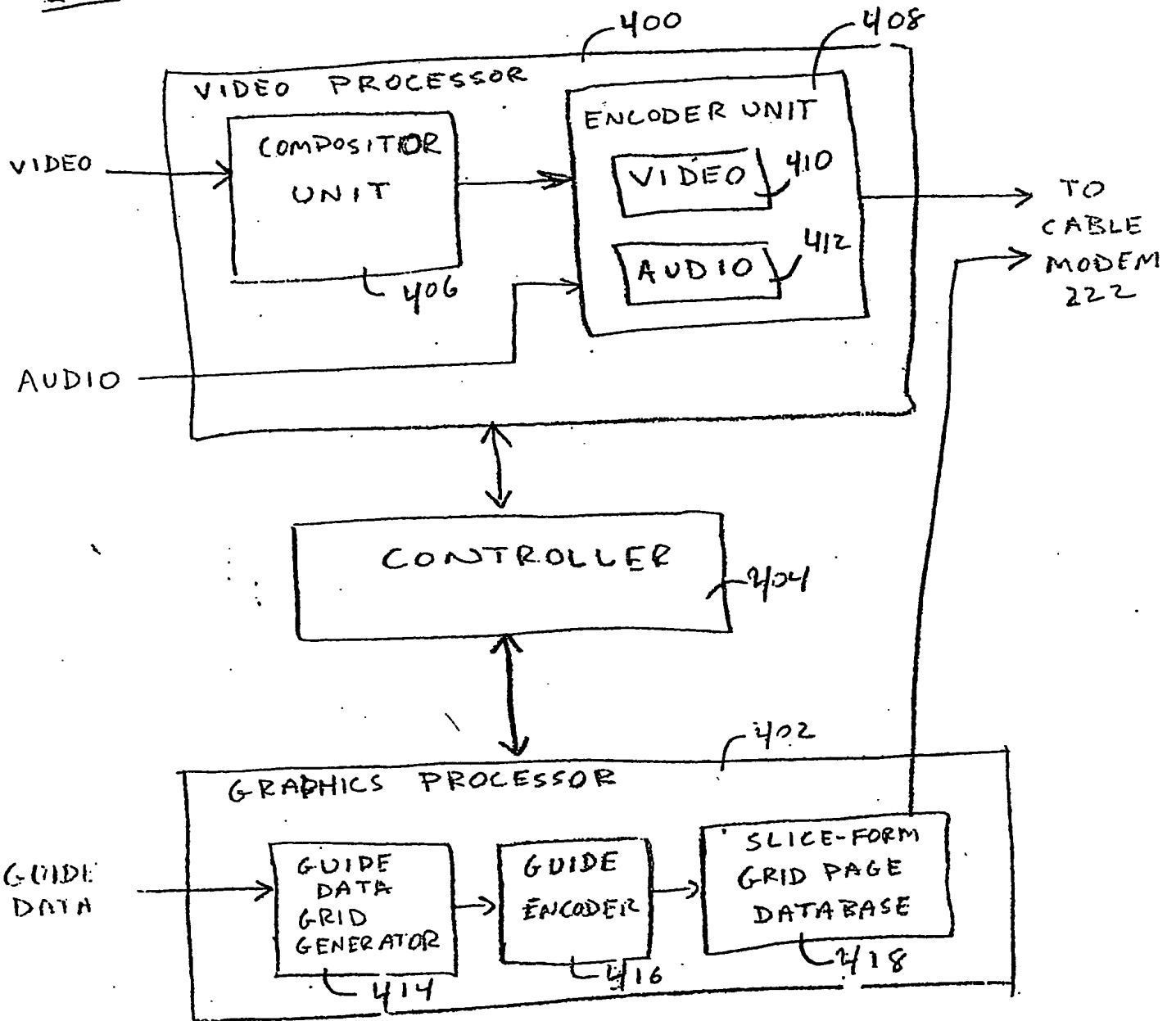


FIGURE 4

228

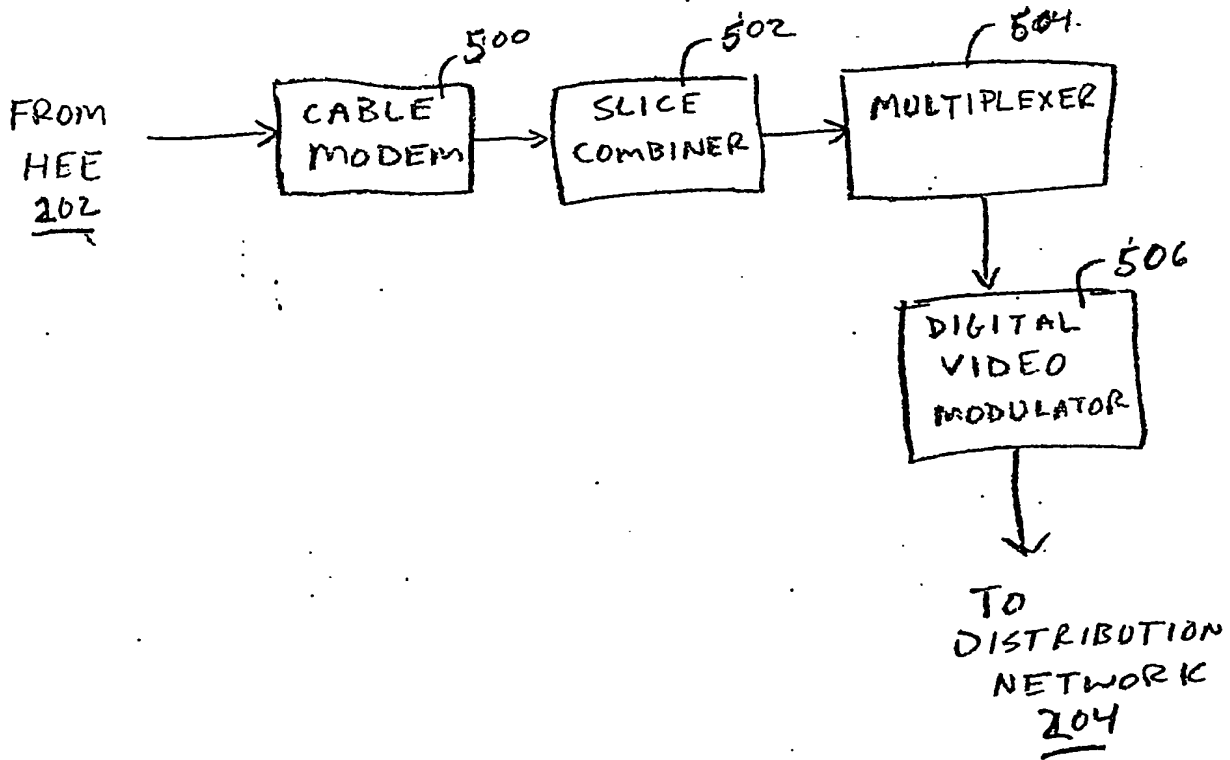


FIGURE 5

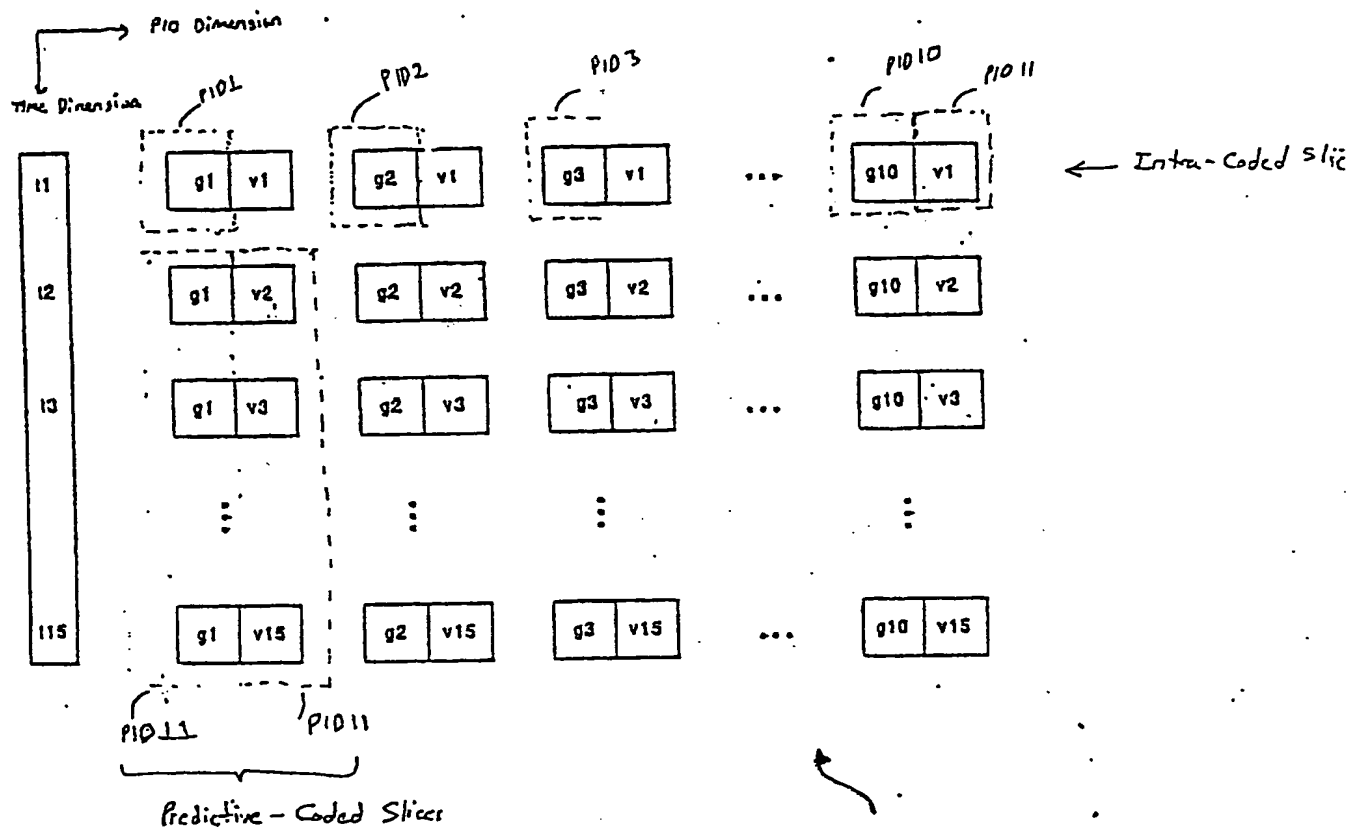


Figure 6

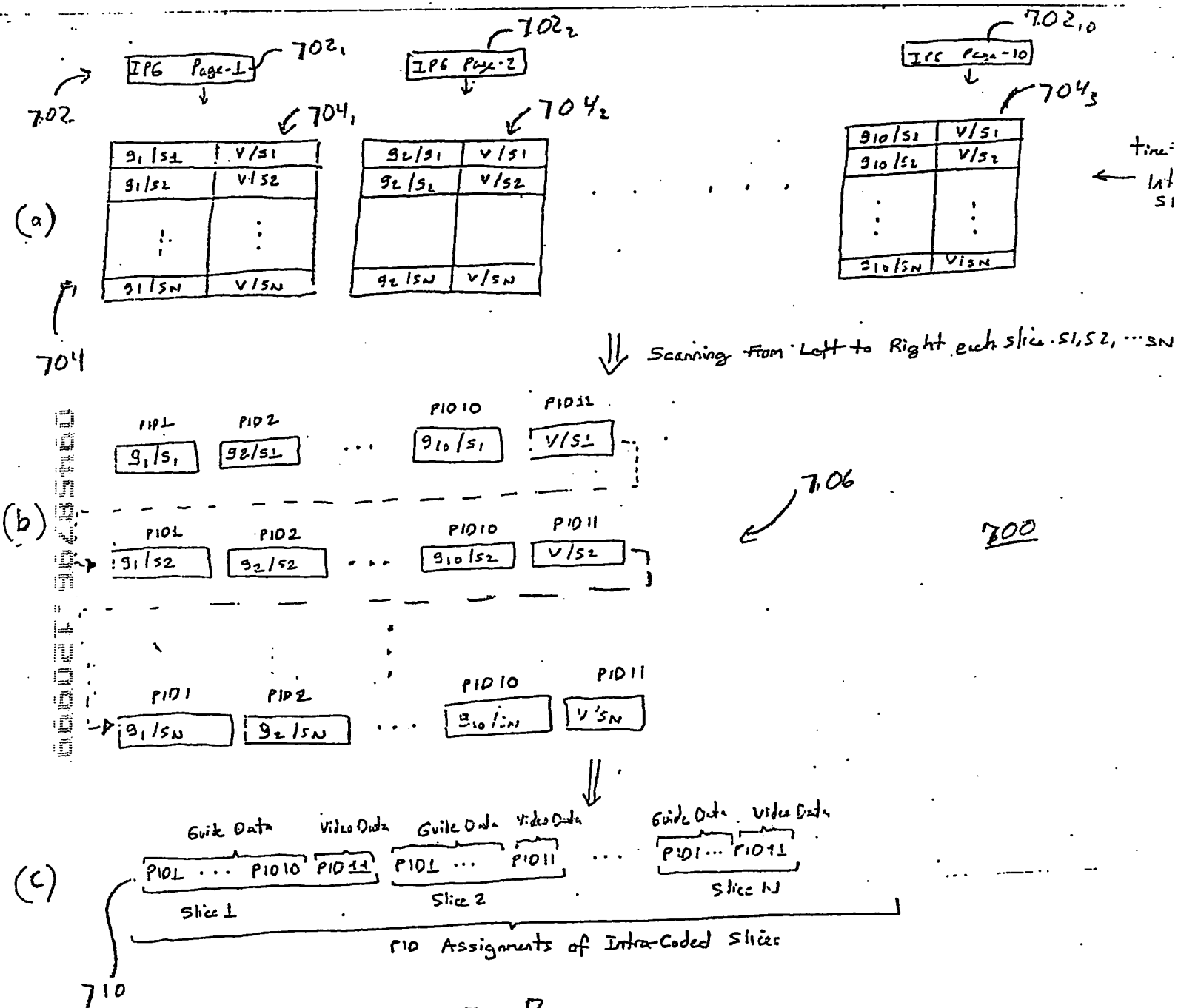
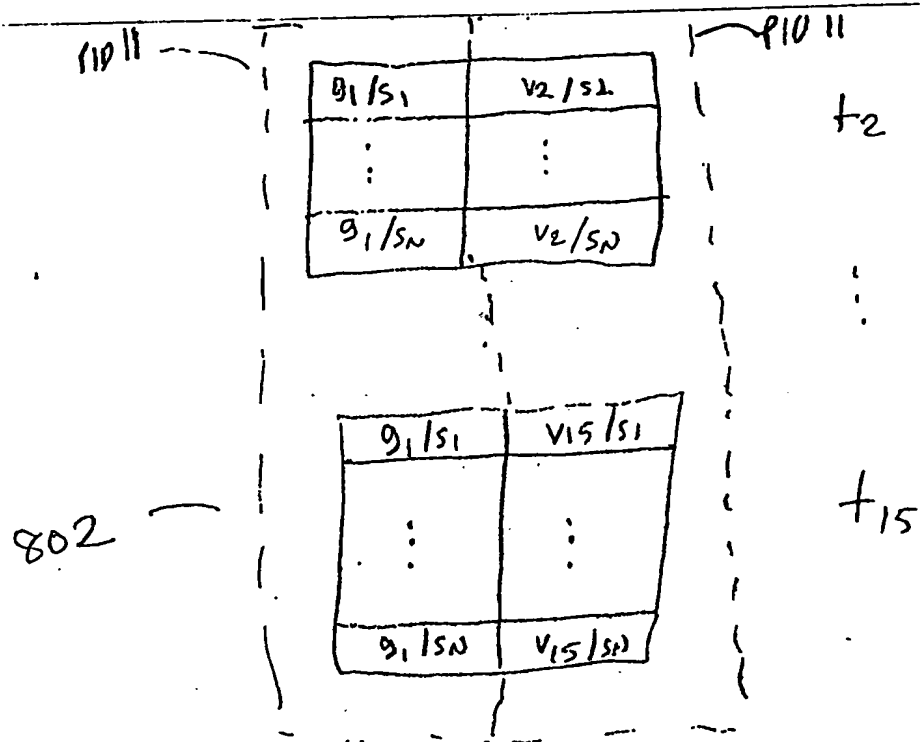
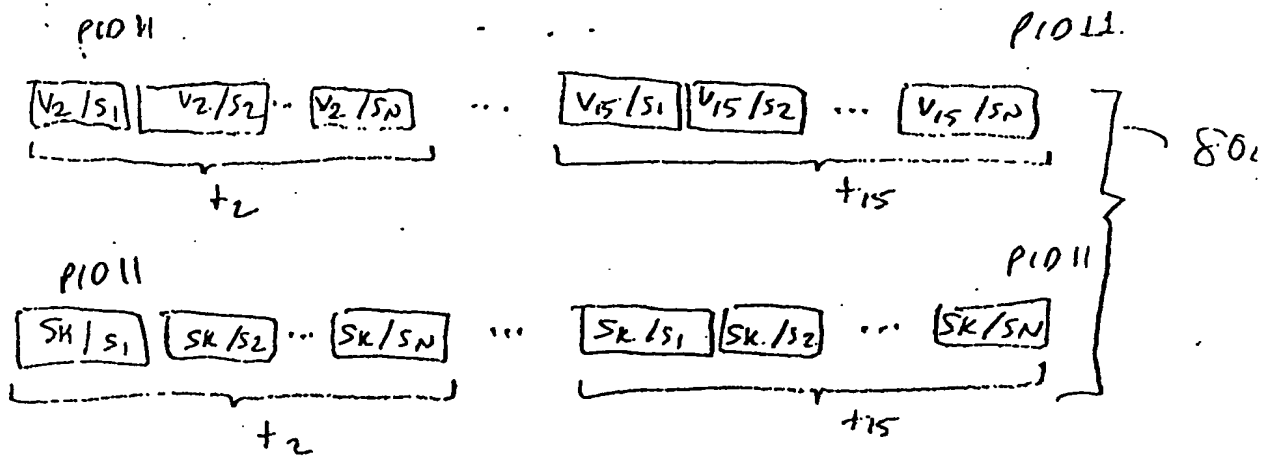


Figure 7



Scanning Video Slices  
Left to right  
Top to bottom



Skipped  
Guide  
Slices

800

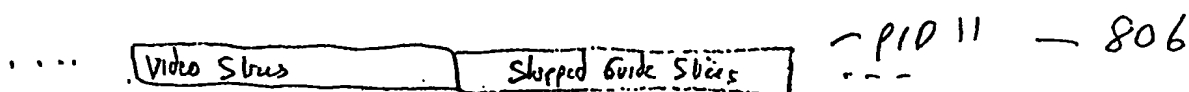


Figure 8







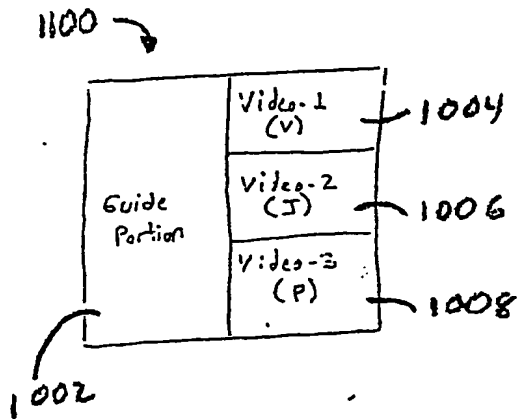


FIGURE 11A

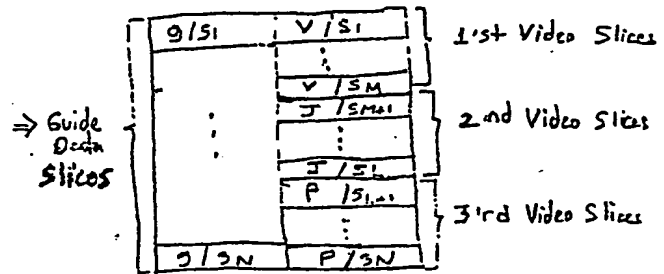


Figure 11B

2025 RELEASE UNDER E.O. 14176

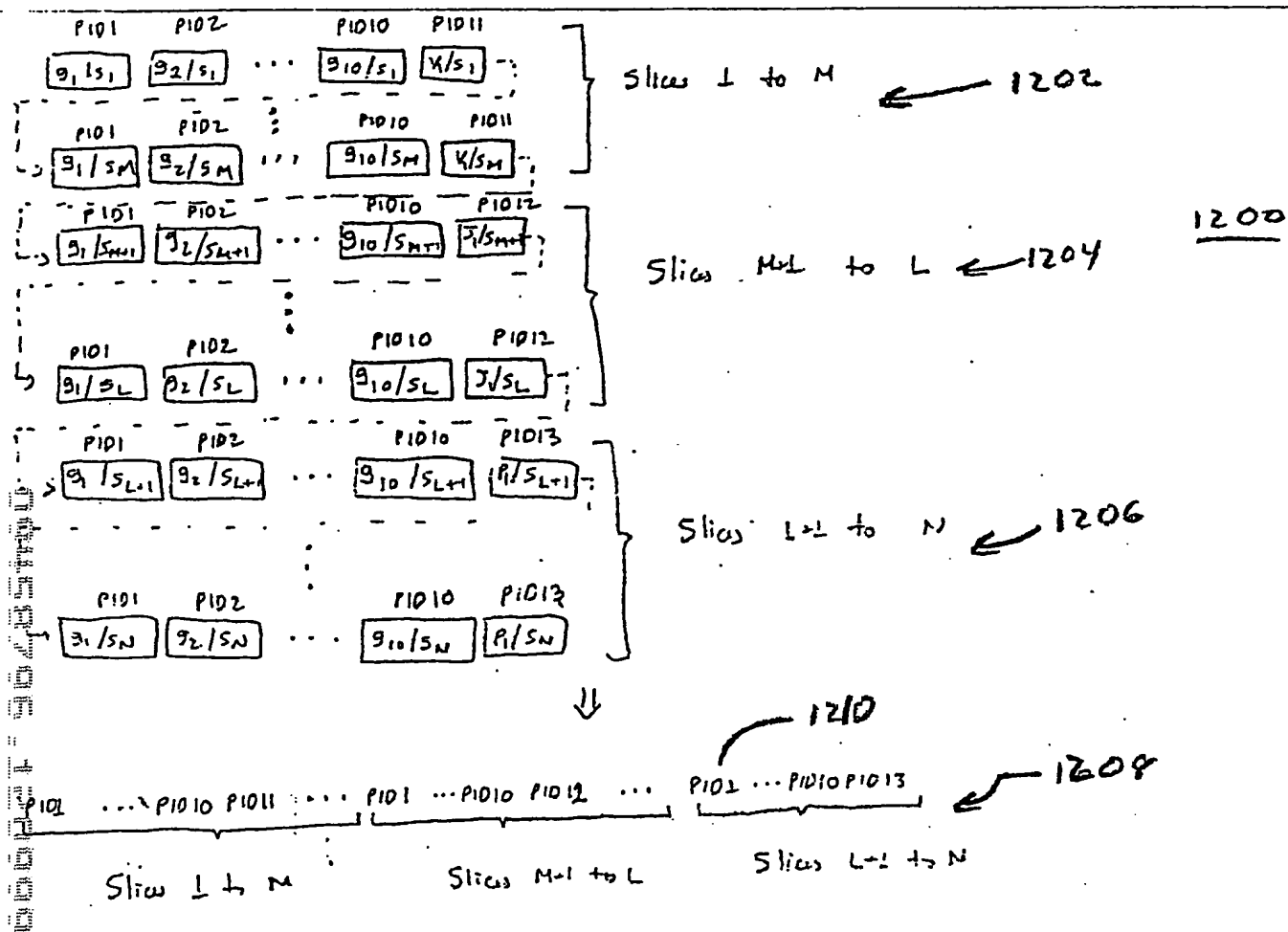


Figure 12

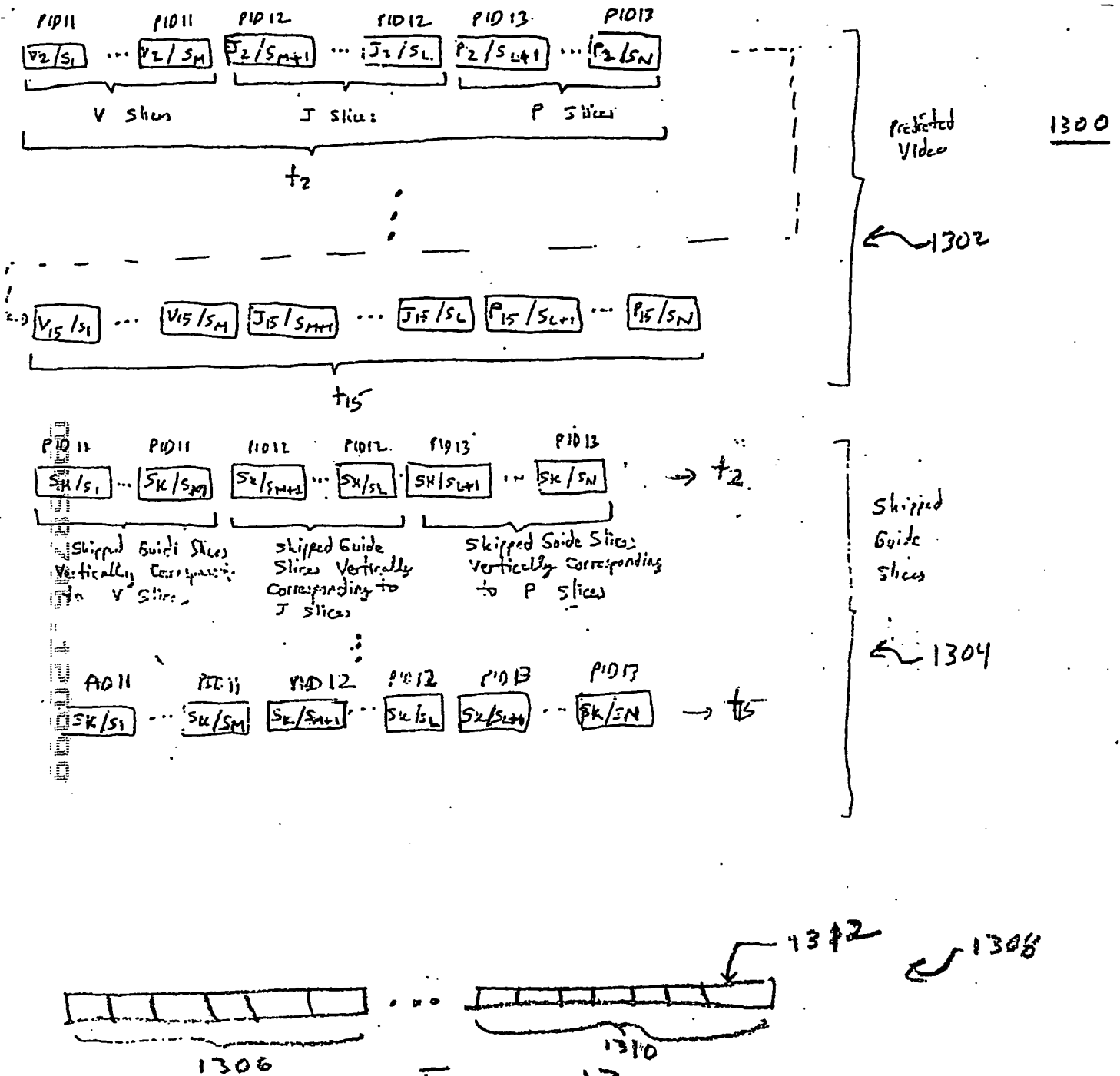


Figure 13

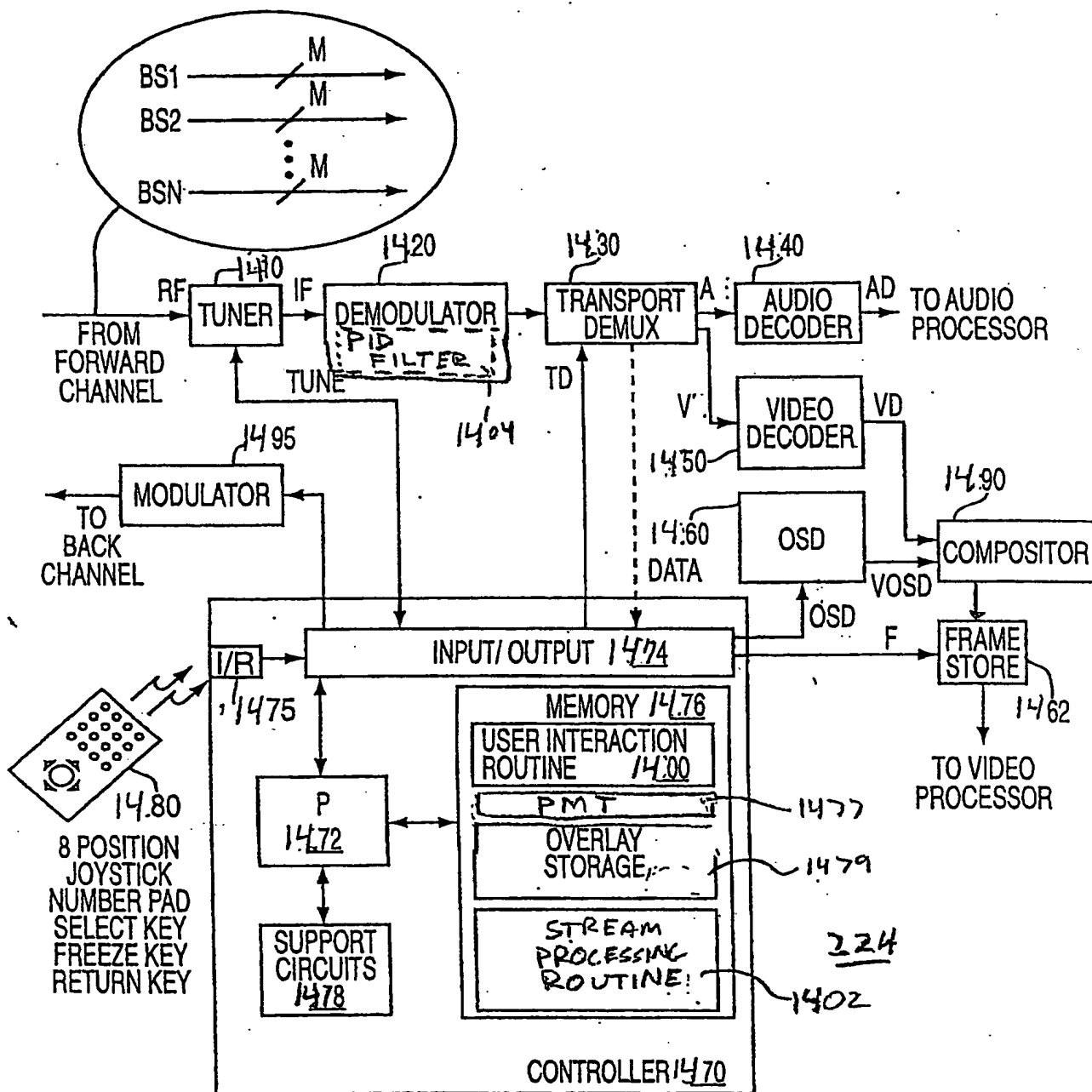


Figure 14

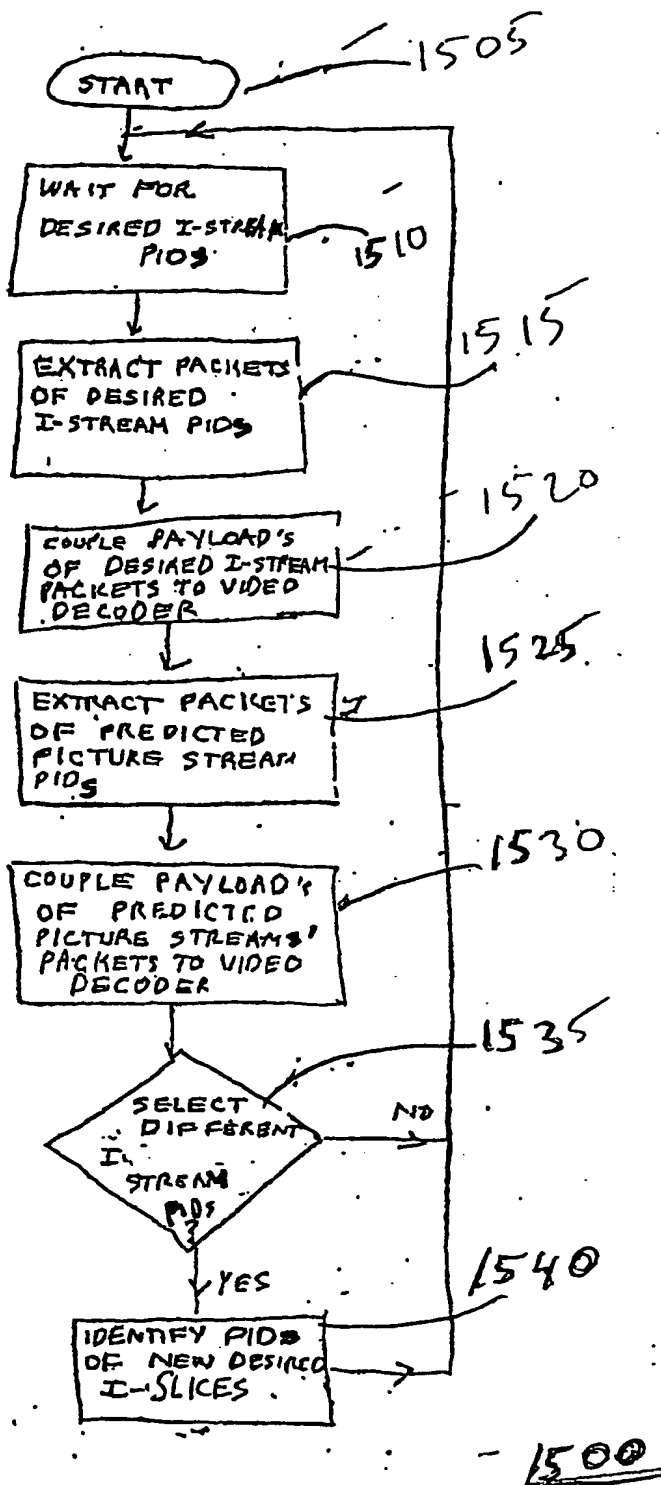


Figure 15

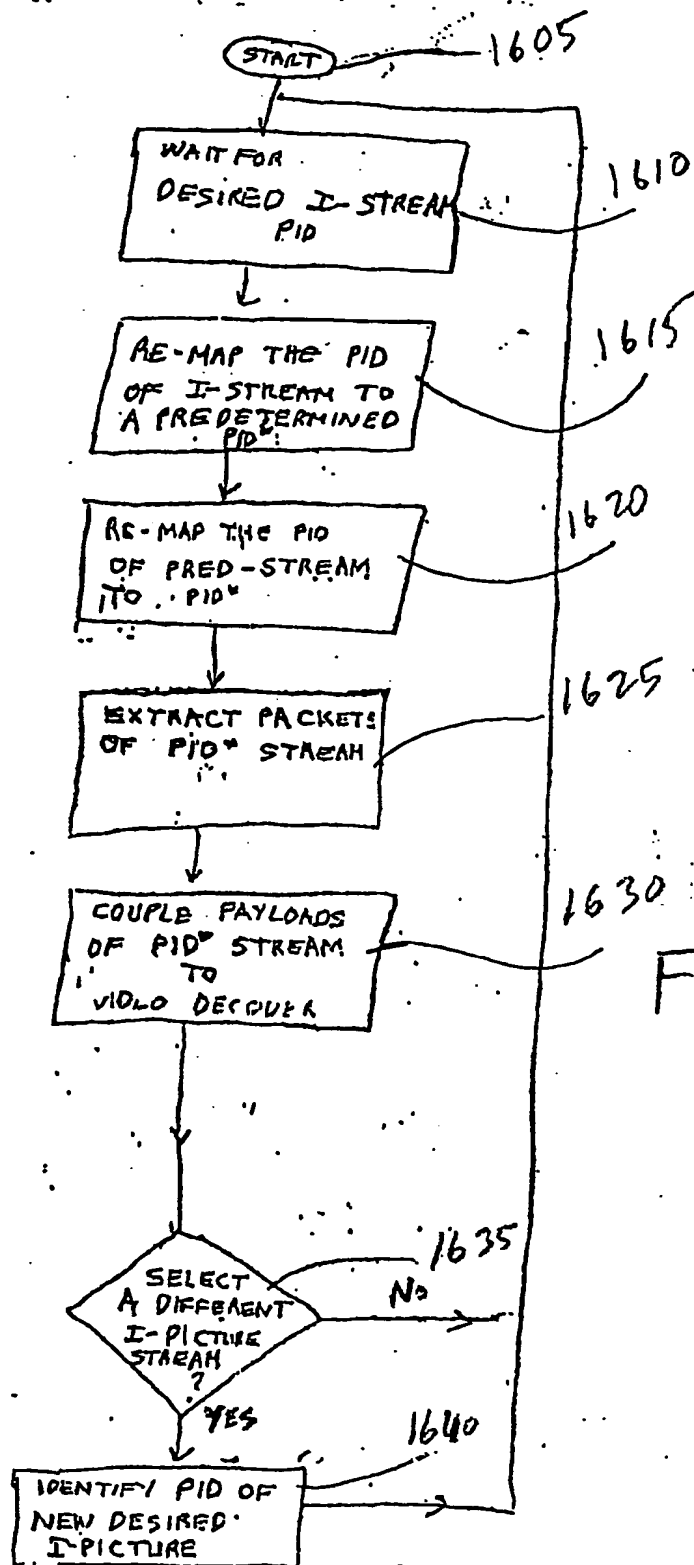


Figure 16



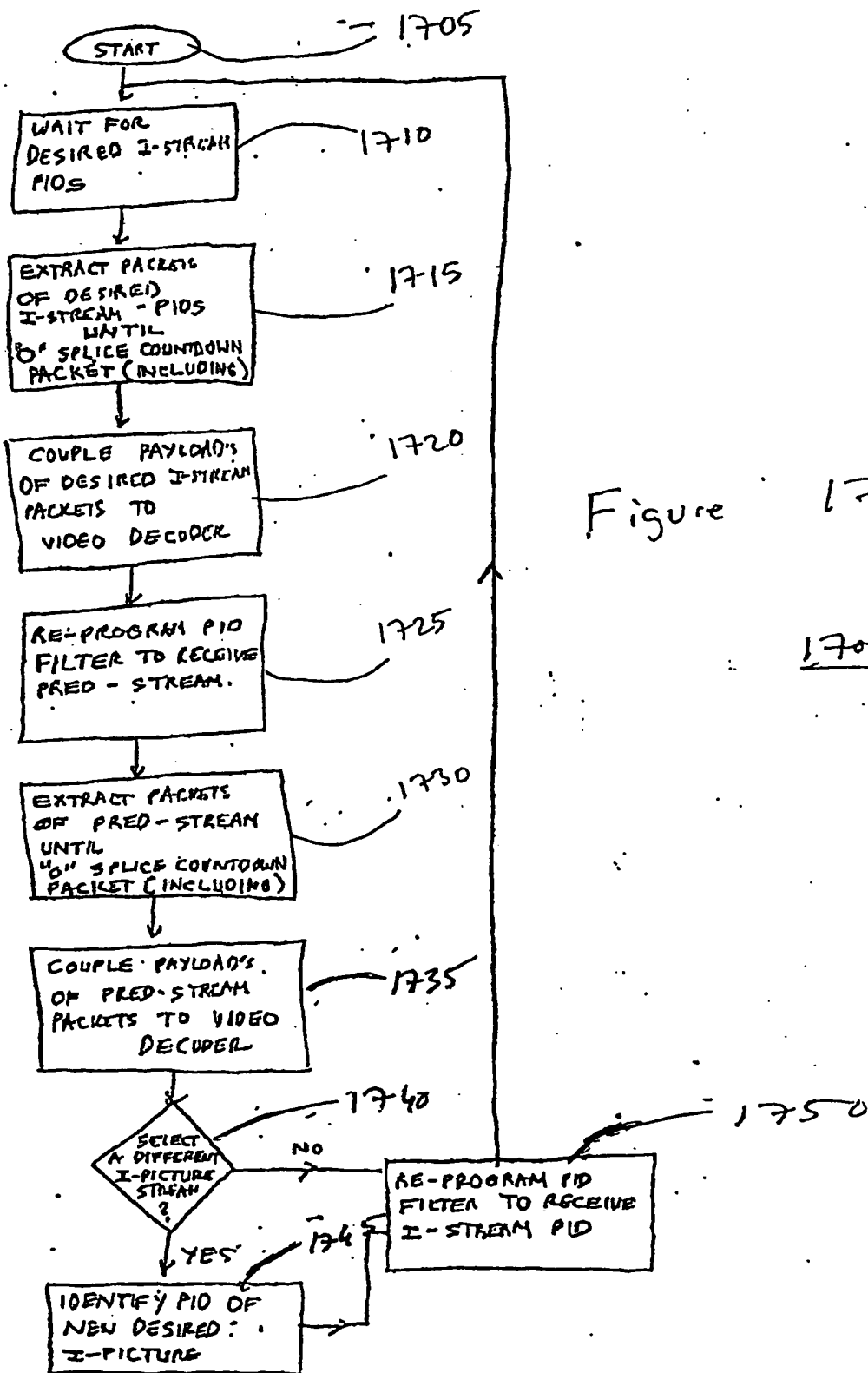


Figure 17

1700

1800

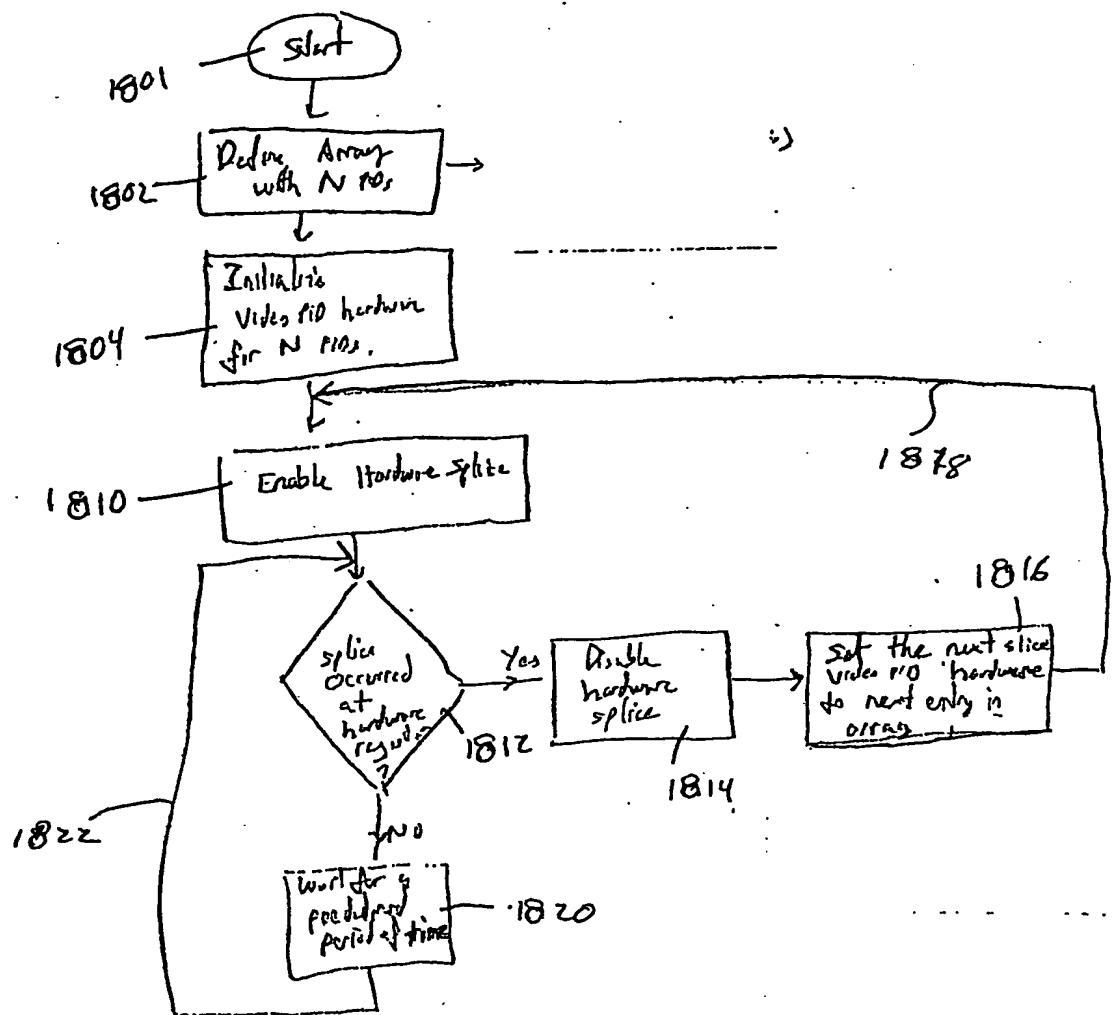


Figure 18

time =  $t_1$

Sequence 50235420

PID1	PID2	PID3	...	PID9	PID10	PID11	PID12	PID13
------	------	------	-----	------	-------	-------	-------	-------

$g1/s1$	$g2/s1$	$g3/s1$	...	$g9/s1$	$g10/s1$	$v1/s1$	$m1/s1$	$k1/s1$
$g1/s2$	$g2/s2$	$g3/s2$	...	$g9/s2$	$g10/s2$	$v1/s2$	$m1/s2$	$k1/s2$
$g1/s3$	$g2/s3$	$g3/s3$	...	$g9/s3$	$g10/s3$	$v1/s3$	$m1/s3$	$k1/s3$
...	...	...	...	...	...	...	...	...
$g1/sN$	$g2/sN$	$g3/sN$	...	$g9/sN$	$g10/sN$	$v1/sN$	$m1/sN$	$k1/sN$

1900

Intra-coded Guide and Video

Fig. 19

time	<u>PID 11</u>	<u>PID 12</u>	<u>PID 13</u>	<u>PID 11</u>	<u>PID 12</u>	<u>PID 13</u>	<u>PID 11</u>	<u>PID 12</u>	<u>PID 13</u>	
$x_2$	$V_2/S_1$	$M_2/S_1$	$K_2/S_1$	$V_2/S_2$	$M_2/S_2$	$K_2/S_2$	$V_2/S_N$	$M_2/S_N$	$K_2/S_N$	2002
$x_3$	$V_3/S_1$	$M_3/S_1$	$K_3/S_1$	$V_3/S_2$	$M_3/S_2$	$K_3/S_2$	$V_3/S_N$	$M_3/S_N$	$K_3/S_N$	2003
$x_4$	$V_4/S_1$	$M_4/S_1$	$K_4/S_1$	$V_4/S_2$	$M_4/S_2$	$K_4/S_2$	$V_4/S_N$	$M_4/S_N$	$K_4/S_N$	2004
$x_{15}$	$V_{15}/S_1$	$M_{15}/S_1$	$K_{15}/S_1$	$V_{15}/S_2$	$M_{15}/S_2$	$K_{15}/S_2$	$V_{15}/S_N$	$M_{15}/S_N$	$K_{15}/S_N$	2005

Predicted Video

2000

Fig. 20

# TABLE 20-2-3-10

time	PID11	PID12	PID13	PID11	PID12	PID13	PID11	PID12	PID13
t <sub>2</sub>	SK/S1	SK/S1	SK/S1	SK/S2	SK/S2	SK/S2	SK/SN	SK/SN	SK/SN
t <sub>3</sub>	SK/S1	SK/S1	SK/S1	SK/S2	SK/S2	SK/S2	SK/SN	SK/SN	SK/SN
t <sub>4</sub>	SK/S1	SK/S1	SK/S1	SK/S2	SK/S2	SK/S2	SK/SN	SK/SN	SK/SN
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
t <sub>15</sub>	SK/S1	SK/S1	SK/S1	SK/S2	SK/S2	SK/S2	SK/SN	SK/SN	SK/SN

Skipped Guide

2100

Fig. 21

# Video and Graphics

22143500

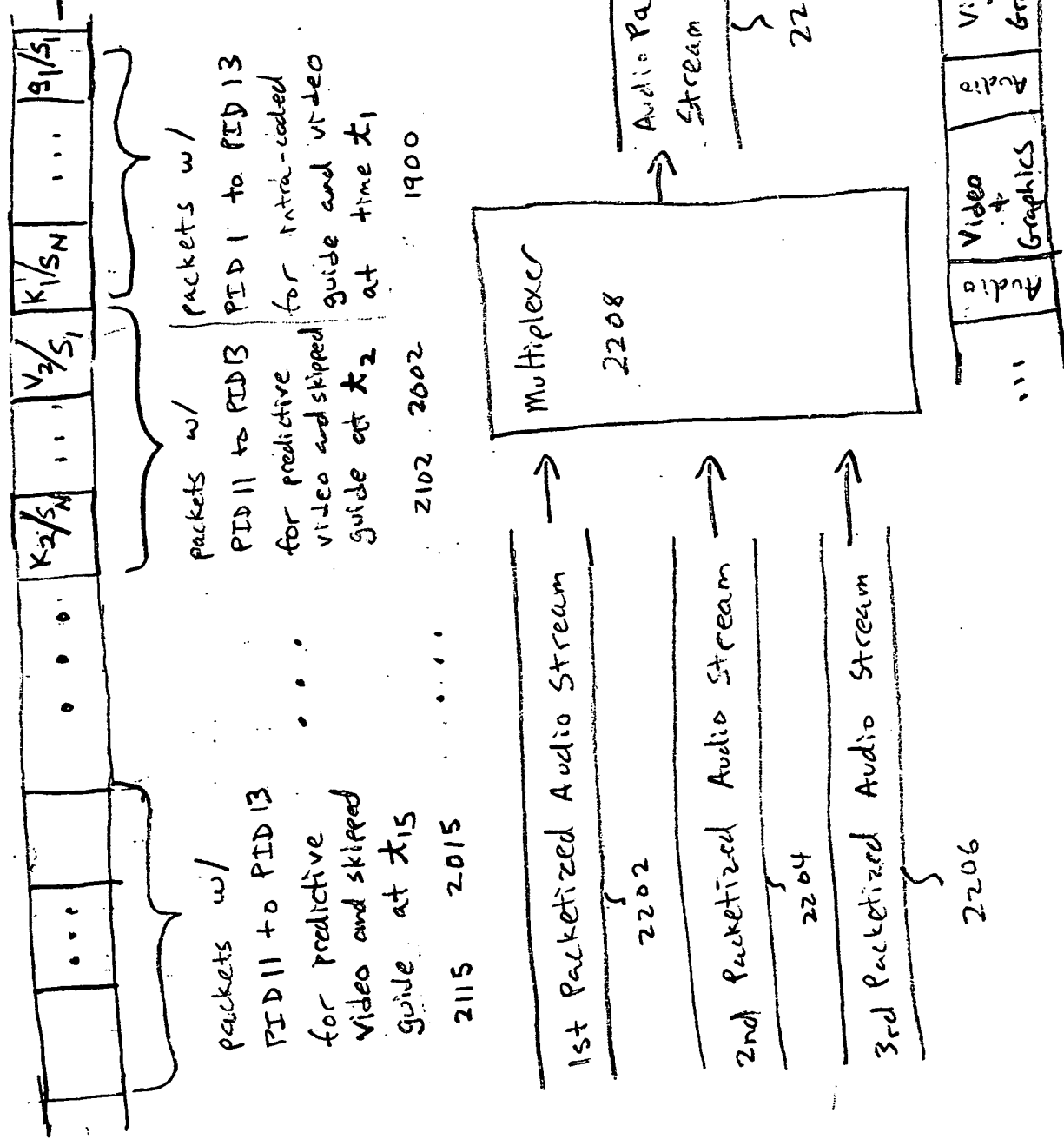


Fig. 22

[illegible]

01	02	03
04	05	06
07	08	09

objects

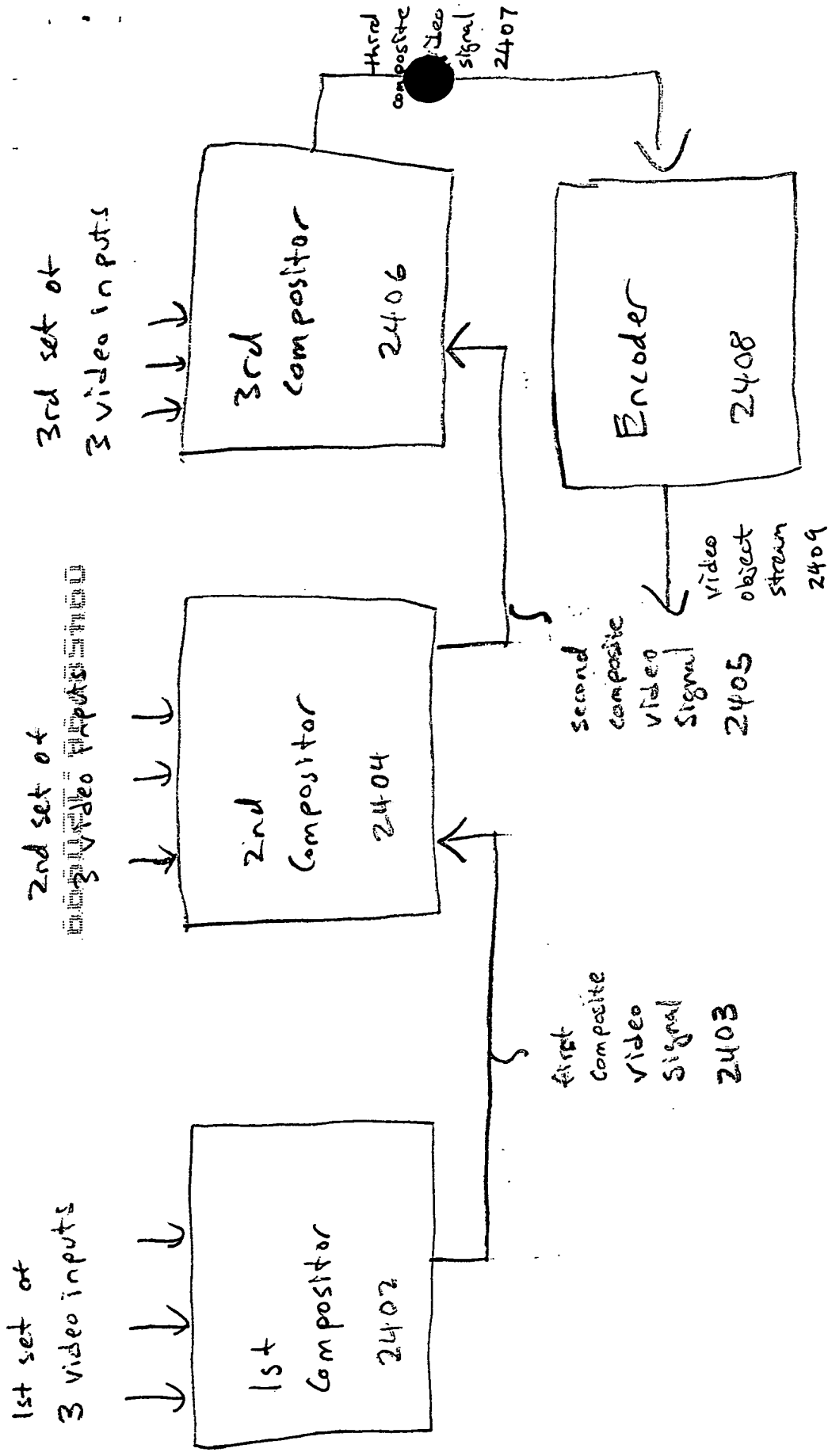
(3)

$01/S_1$	$02/S_1$	$03/S_1$
$\vdots$	$\vdots$	$\vdots$
$01/S_N$	$02/S_N$	$03/S_N$
$04/S_{N+1}$	$05/S_{N+1}$	$06/S_{N+1}$
$\vdots$	$\vdots$	$\vdots$
$04/S_{2N}$	$05/S_{2N}$	$06/S_{2N}$
$07/S_{2N+1}$	$08/S_{2N+1}$	$09/S_{2N+1}$
$\vdots$	$\vdots$	$\vdots$
$07/S_{3N}$	$08/S_{3N}$	$09/S_{3N}$

## slice-based partitioning

(2)

Fig. 23



Cascade Compositor

Fig. 24



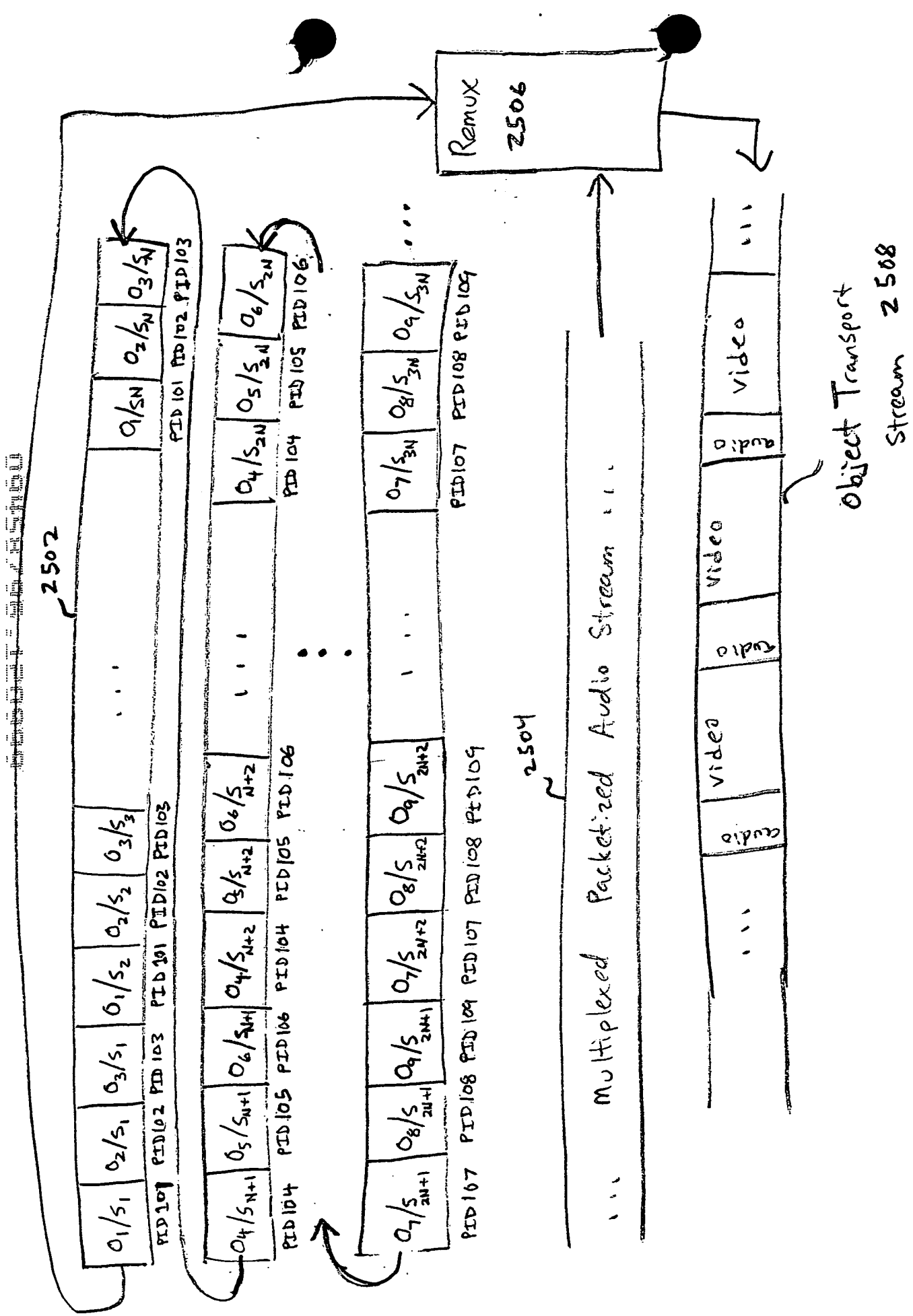


Fig. 25

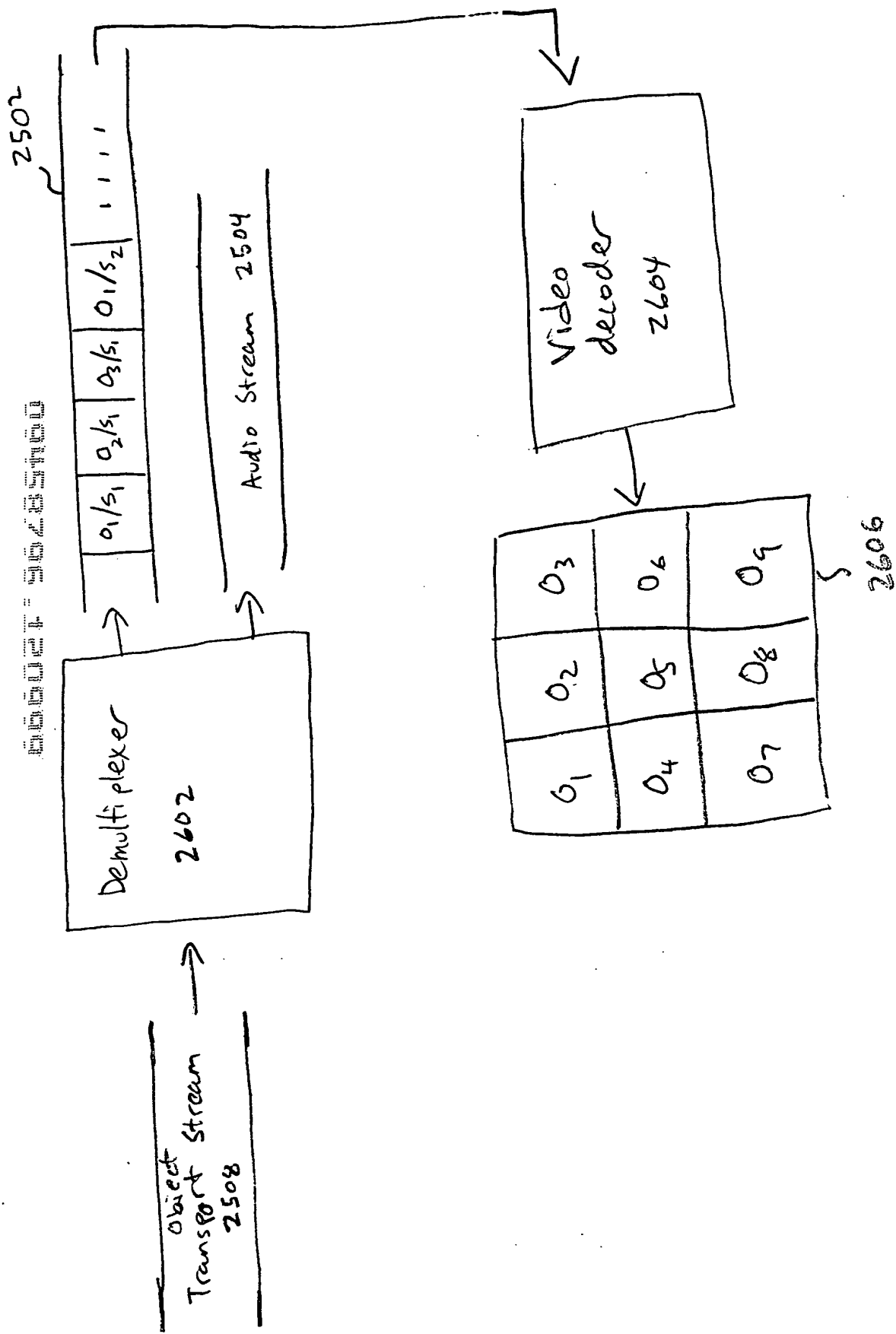


Fig. 26

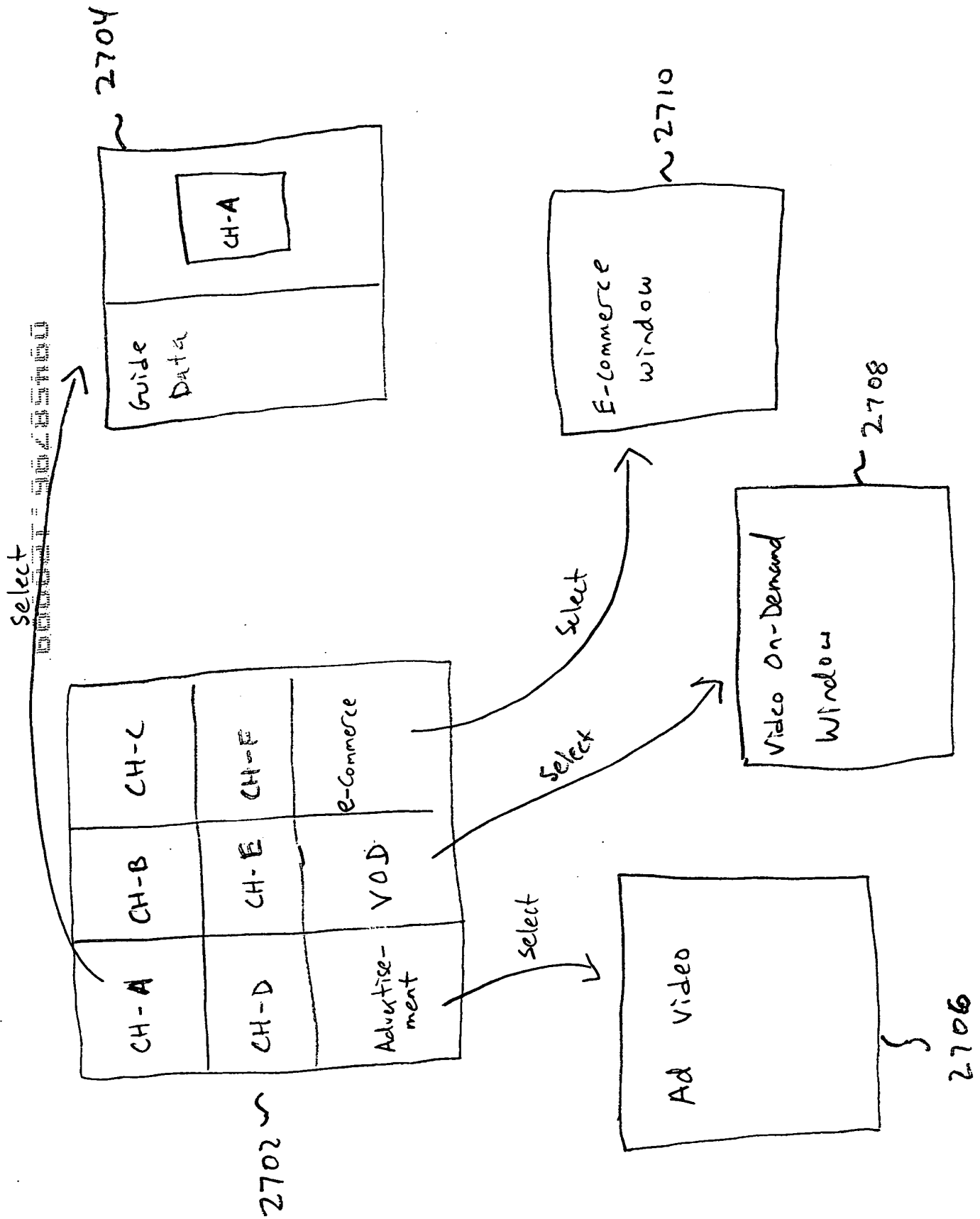


Fig. 27

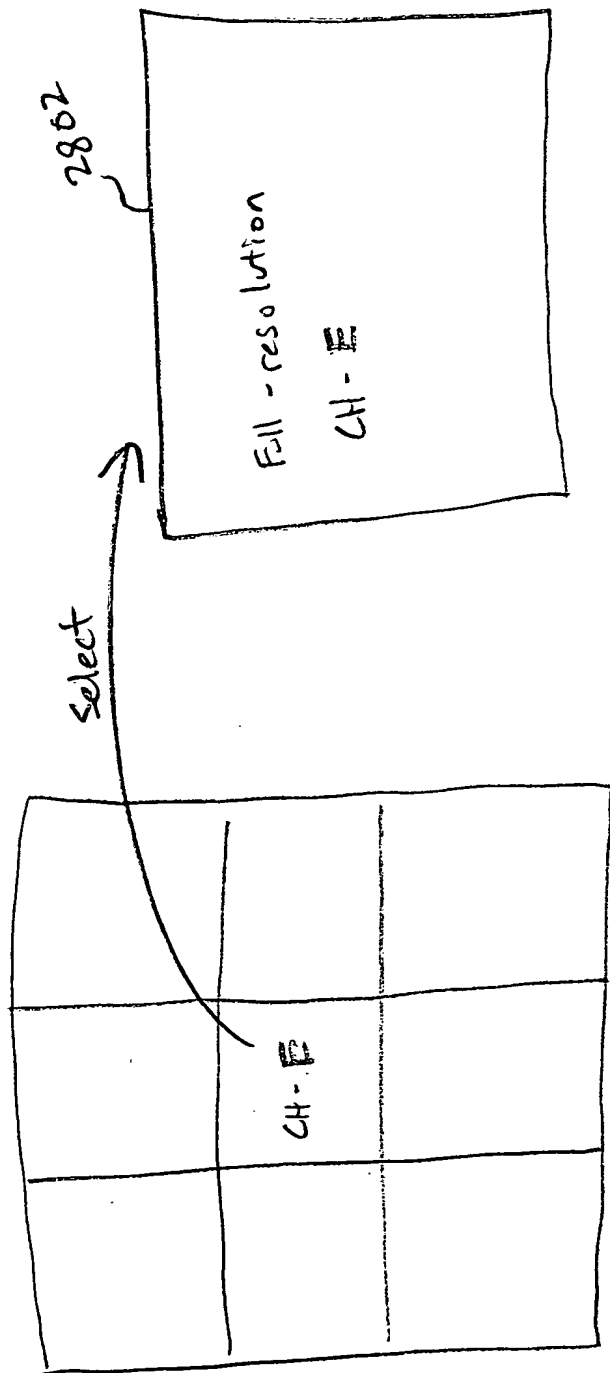


Fig. 28

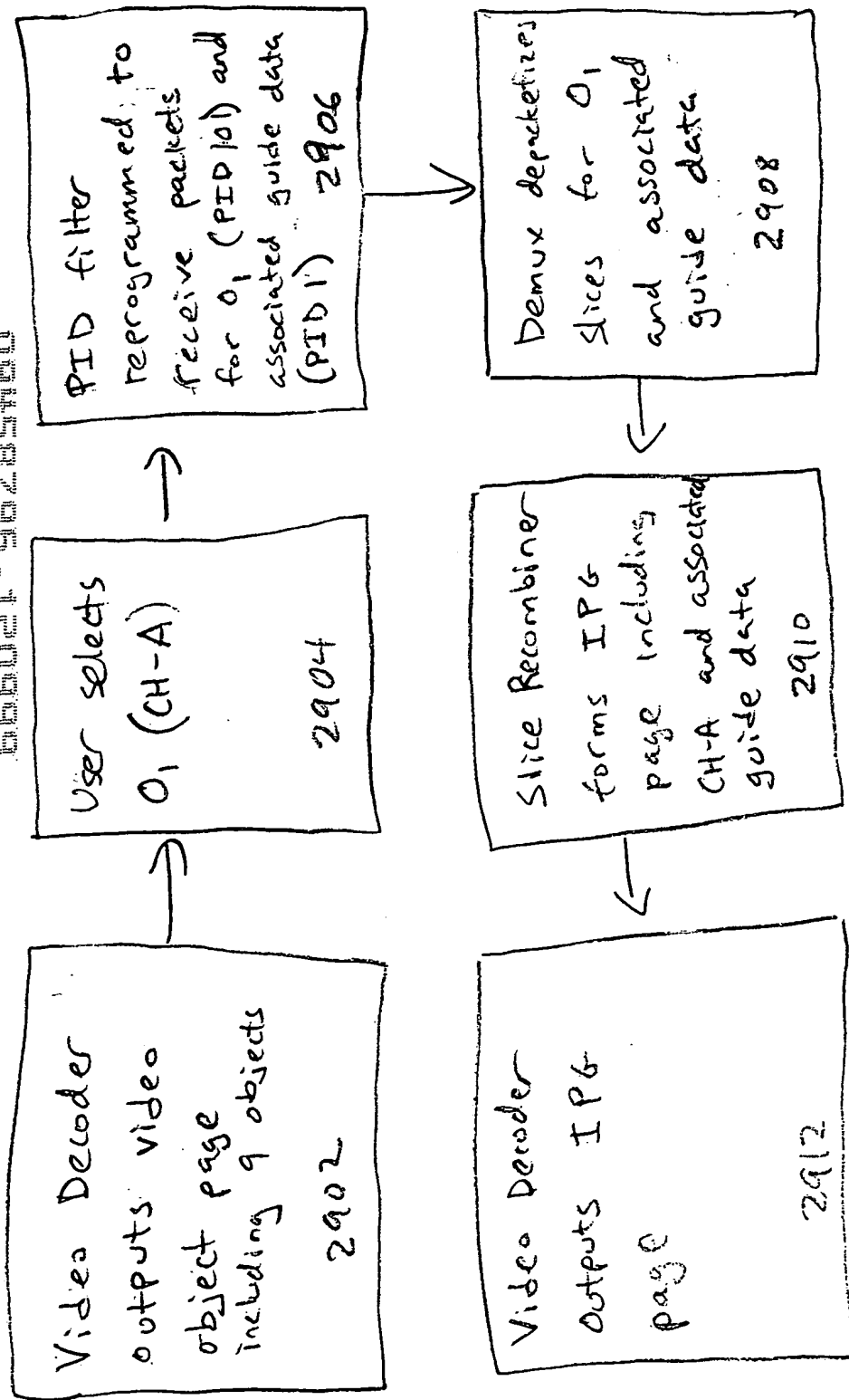


Fig. 29

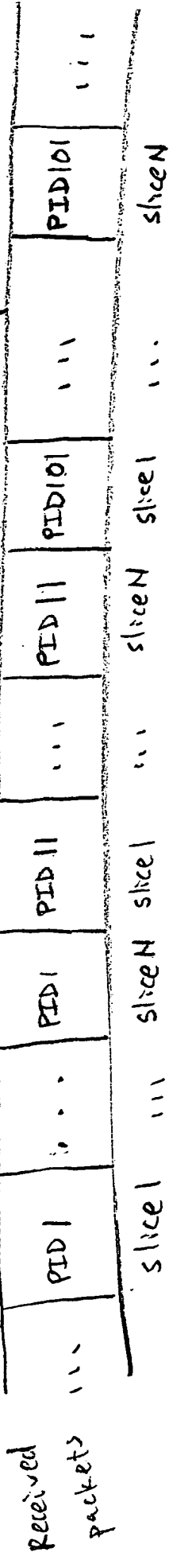
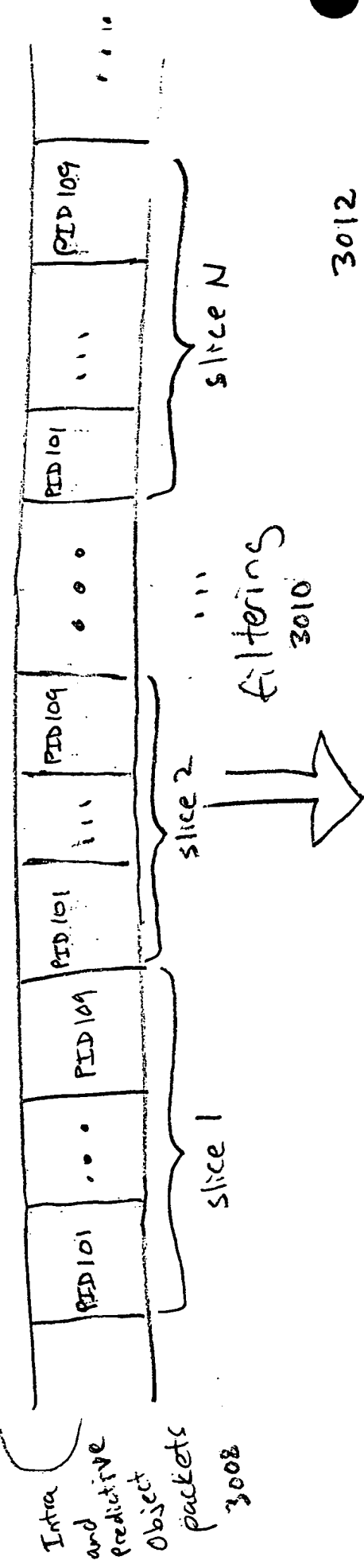
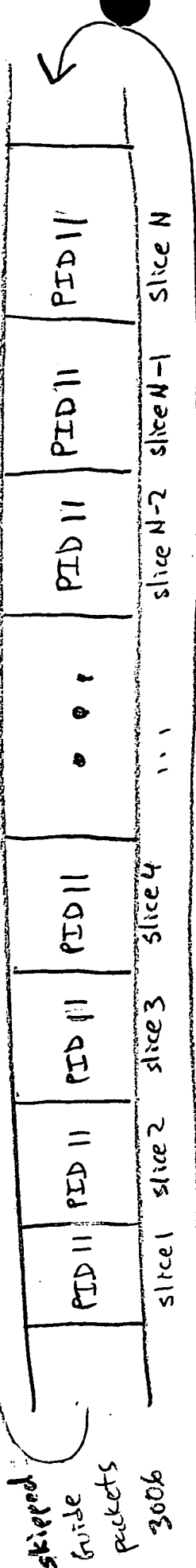
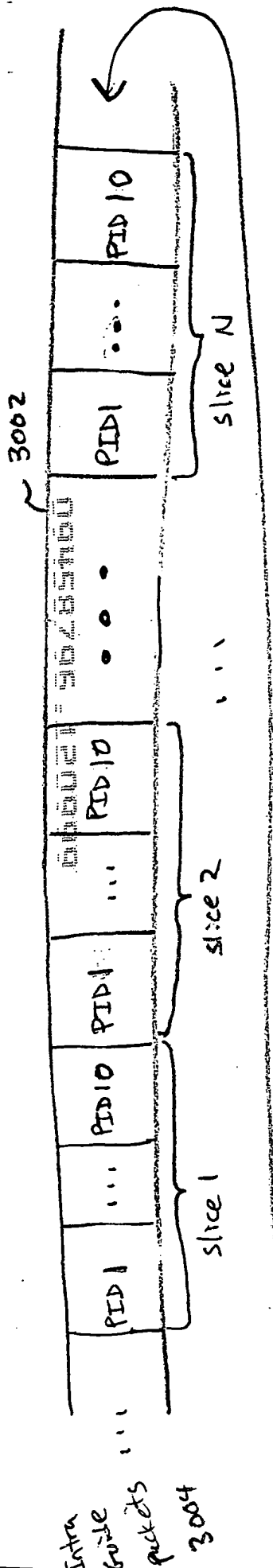
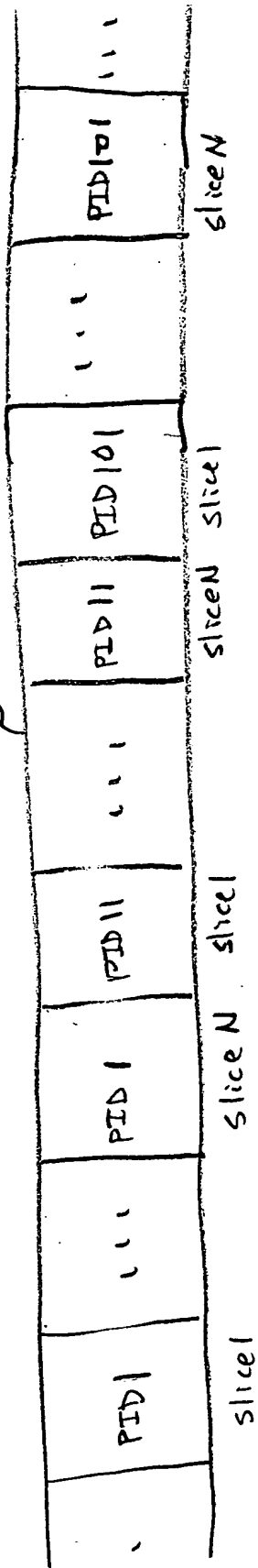


Fig. 30

Received  
packets



↓  
Slice  
Recombination  
3102

PID1/s1	PID101/s1
PID1/s2	PID101/s2
PID1/s3	PID101/s3
⋮	⋮
PID1/sN	PID101/sN

Intra-Coded Frame  
3104

PID11/s1	PID101/s1
PID11/s2	PID101/s2
PID11/s3	PID101/s3
⋮	⋮
PID11/sN	PID101/sN

Predictive-Coded Frames  
3106

Fig. 31

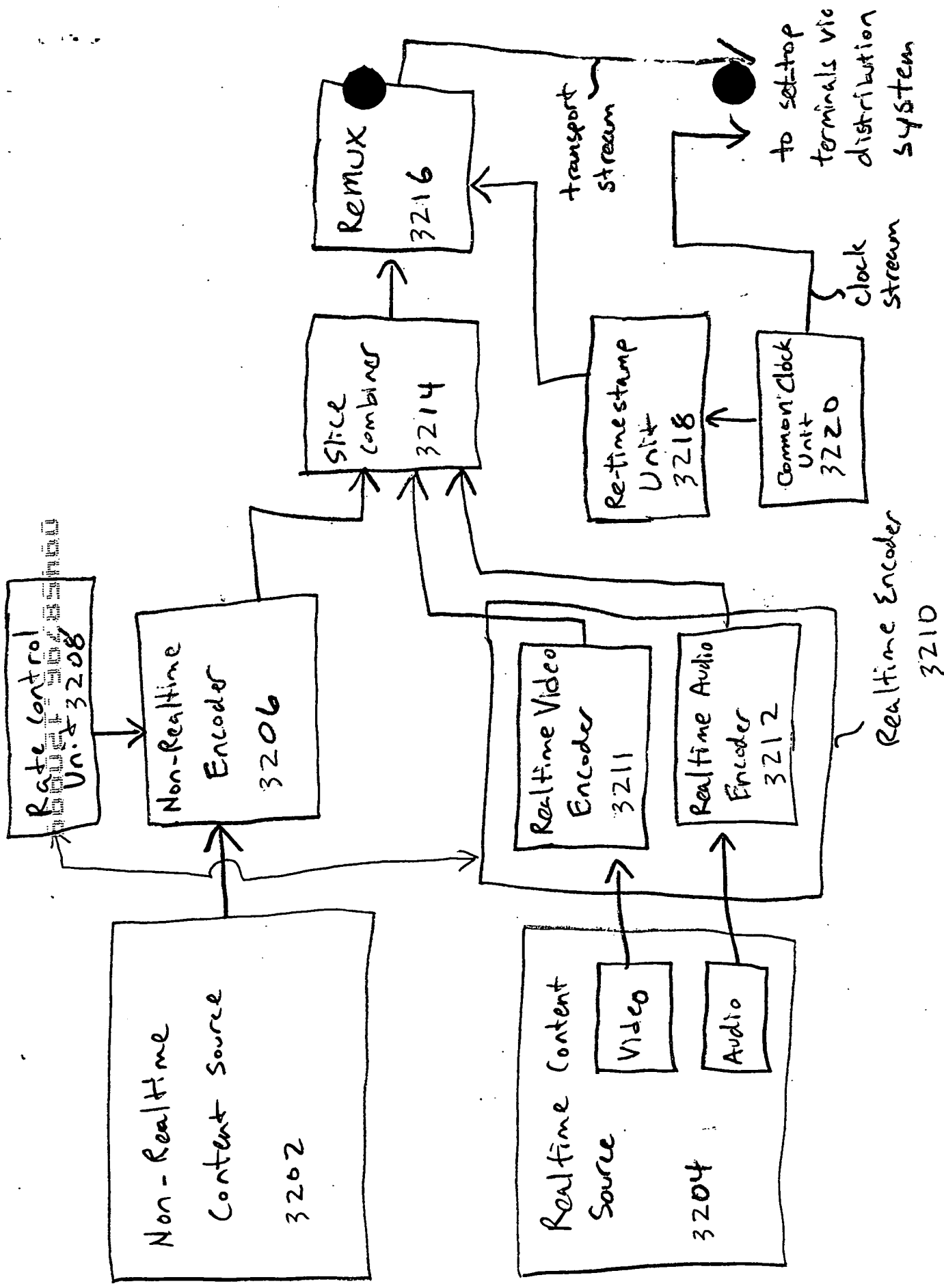


Fig. 32

Re-timestamping and Rate Control Apparatus